

## Special Issue

# Numerical Modelling of Atmospheres and Oceans II

### Message from the Guest Editor

Numerical models have widely been used in the modelling and prediction of various phenomena in the atmospheres and oceans, with a wide range of spatial and temporal scales. JMSE is pleased to announce a Special Issue "Numerical Modelling of Atmospheres and Oceans II", which is based on the great success of our previous one "Numerical Modelling of Atmospheres and Oceans". The subjects of this Special Issue include, but are not limited to:

- Development and validations of new numerical methods and data assimilation;
- Numerical studies on the main processes in atmospheres and oceans, particularly during extreme weather conditions;
- Coupling between atmospheric and ocean models;
- Predictions and predictability of climate models;
- New parameterizations for sub-grid scale processes in numerical models;
- Numerical studies on atmosphere–ocean interactions, interactions of ocean waves and currents, and interactions between ocean currents, waves and sea ice;
- Numerical investigations of environmental conditions over coastal and inland waters;
- Numerical studies of hydrodynamic instabilities and mixing.

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### Guest Editor

Prof. Dr. Jinyu Sheng

Department of Oceanography, Dalhousie University, Halifax, NS B3H 4R2, Canada

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### Deadline for manuscript submissions

closed (5 March 2024)



## Journal of Marine Science and Engineering

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an Open Access Journal  
by MDPI

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Impact Factor 2.8  
CiteScore 5.0



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*Journal of Marine Science and Engineering*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[jmse@mdpi.com](mailto:jmse@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (JMSE, ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi  
School of Engineering, The UWA Oceans Institute, The University of  
Western Australia, Perth, WA 6009, Australia

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